Sequence listing:

SEQ ID No. 1.

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CONTENNESS CATEFECORE ACCOTEMES TOCCOCONTE CAMPICACTO TOCAMCCOCA	180
TOCTOCTACT COCCOCCTO TOCCACOGA CAACAGTOOT TOATAACCTO CTOAACAGTG	240
ACCUPATION CTACATOCTE CONSCITTUA COACTETTOS TETETETOTE GAACCOCACA	300
Procesogy yydrocean definences accessory described gycorecent	360
ANGROUNDE OCNOCIONOS TRONGENTOS CRIGANACIOS ANTOCOCCOA TRONCAGENG	420
CTOTTACTOC TOCTOOTOGIA ANTOCIACTE ACOTOCTTGA TOGACTACCA AGANTGAGGG	480
MANAGECCAT TOCCOLOTTO OTTOTCOCAT TOLAGCACCT TOCTGCAGAT OTTGATTOTT	\$40
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AGGTENAGET GTETGGETICE ATENGENGTE AGTACTTONG TOCCTTOCTE ATEGCTGCTE	660
CTTTOSCTUT TOGOGRATUTE GAGATIGAAA TCATTGATAA ATTAATCTCC ATTCCGTACS	720
TEGRANTONE ATTUNONTE ATEGNOCOTT TEGETOTENA AGENGACHT TETENTAGET	780
COCACAGATT CTACATTANG COLOCICANA NATACAACTC CCCTANANAS GCCTATGTTG	840
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TENCTOTEEN ACCITOTECE ACCACCAGIT TOCAGGOTEN TOTENACTITE OCTOROFTAC	960
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COCCOGRAGO ATTTOGRAGO ANACACOTOS AGGOGATIGA TOTOSACATO ANGARANTOS	1080
CTGATGTCCC CATGACTETT GCTGTCOTTG CCCTCTTTGC CGATGCCCCG ACAGCCATCA	1140
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COTTOCCOCA CTACTTCGAT GTGCTGAGCA CTTTCGTCAA GAATTAATAA AGCGTGCGAT	1440
ACTACEACCE ACCTIGATES AASTGATAGG CITGTGCTGA GGAAATACAT TICTTTTGTT	1500
CTATTATICT CITTCACCCC ATTACTTT CACTCTOTAL COTTACTTCT TTOTACCAAC	1560
THETATITE SGATETIANS THOUSENET STANSCEARA THEATTICA ASMOTSSITE	1620
THETATIC GGATETIAG THEOREM STATES AND	1680
CTTCCAATAA TAAGAATAAT AAATTACGTT TCAGTGAAAA AAAAAAAA AAAAAAAA	1713
ALLEGANIA ALLEGANIA ALCCCCCCOLLA TTC	

œ										la P				iag a ilu i		47
301 15	Qly	ACC Thr	CTC Val	Lys Lys	CIG CIG	Pro	07Å 000	Ser Ser	Lye	25 25	Leu	Ser Ser	AAC Aan	yrg coo	Ile 30	95
Lou	Lev	Len CIC	YT*	QCC Ala 35	Lou	TOC	Glu	ery ecc	ACA Thr 40	ACA Thr	Val	Val	CAS Asp	AAC Asti 45	Leu	143
teu CTG	ALC:	AGE Sor	GAO Glu 50	Jup	OTC Val	HTP	tyr Tyr	ATC Mec 55	Lou	07.7 000	AL.	TIG	AGG Arg 60	The	CIT Lou	191
ooi	Cic	Ser 65	Val	GL u	ALA OCS	arc arc	Lys 70	Als	OCC Ala	lys	AGA	Ala 75	Val	GIT Val	GIT Val	239
ety	TGT Cys 80	01y	GIY	Lya Lya	TTC Phe	CCA PEO 85	Val	CAG Glu	GAT Asp	OCT Ala	AAA Lye 90	Glu	GAA Glu	GTG Val	CAG Gla	. 287
CTC Lau 95	Phe	TTG	Cly CCC	AAT Asn	OCT Ala 100	OJA OGY	ACT The	Ala Ala	atg Met	CGG Arg 105	DT0	TTG	ACA The	GCA Ala	GCT Ala 110	335
GTT Val	ACT	YJ# OCI	OCT Ala	03T 01y 115	oga Gly	AAT Asn	Y) s CCY	ACT The	TAC Tyr 120	GIG Val	CIT	CAT GAT	CJÀ CCY	GTA Val 125	CCA Pro	363
aga Arg	ATG Het	Yea	GAG Glu 130	AGA Arg	5 <u>1.0</u> 500	ATT Ile	G1Y GC	132 yab ayc	ren 110	OTT Val	GTC Val	gga gly	TTG Leu 140	lys Lys	CAG Gln	431
CTT	cly ct	OCA Ala 145	GLT Asp	QTT Val	gat Asp	Cys Cys	TTC Phe 150	CII Leu	gJA eoc	ACT ACT	gac Aep	TGC CY = 155	CCA Pro	Pro	GTT Val	479
yrd Coi	OTC Val 160	aat aan	gga gly	ATC Ile	GCA	000 41y 165	CEA Lou	CCT FTO	oth ect	ejà cc	aag Lys 170	GIC Val	aag Lys	CTO Lau	TCT Ser	527
GGC Gly 175	TCC Ser	MC	agc See	agt Set	CAG Gla 180	TAC Tyr	TTG Leu	AGT Set	Ala	770 Leu 185	CTG Leu	ATG Het	GCT Ala	GCT Ala	Pro 190	\$7\$
TTG Leu	oct Ala	CTT Leu	GCG Gly	СЛТ Лер 195	GTG Val	Glu Glu	ATT Ile	GLU GLU	ATC Ile 200	ATT Ile	gat Aed	iys Lys	TTA Leu	ATC 11e 205	TCC Ser	623
ATT Ile	CCG PTO	TAC Tyr	GTC Val 210	GAA Glu	ATG Net	ACA The	TTG	AGA Arg 215	TTG Lou	ATG Het	G) G) G) G) G) G) G) G) G) G) G) G) G) G	arg	TTT Phe 220	ejà CC1	Vej GIG	671
AAA Lys	GCA Ala	GAG Glu 225	CAT His	TCT Ser	Cat Asp	6er	706 Trp 230	Asp .	AGA Arg	TTC Pho	Tyr	ATT 11- 235	lys ·	GGA GGA	GCT Gly	719

SEQ ID No. 2 (continuati n).

eju Cri	Lys 340	Tyz	Lys	TOC Set	CCT Pro	Lys 245	Asti	Ale	TXT	Val	014 250	Gly	GAT Aug	GCC Ala	TCA Ser	767
	, YJ'										The				710 Val 270	815
					dly					Gl:					TIT Phe	863
XI.	Glu	GTA Val	CTG Leu 290	alu) Mag	DTA 30%	QJA QQY	003 Ala 295	Lys	AFT	ACA Thr	Tap	Thr Joo	ara Olu	ACT The	911
ACC Ser	OTA Val	ACT The JOS	AT	ACT Thr	est ecc	CCA Pro	200 210	YLA COG	ar Gre	PTO	TIT Pho	003 Cly 315	Acq Arg	iye Iye	Hr. CYC	959
Leu	AAG Lys 320	Хlа	ATT Ile	CAT Asp	Val GTC	사으 사요 125	DTK Jok	MC MA	ang Lys	atg Mal	Pro 330	QAT Asp	AWT	ALE	ATG Net	1007
ACT Thr 335	Leu	GCT Ala	Vel GIG	Arj QLI	000 Ala 340	CTC Lau	TTT Phe	occ Ala	cat Asp	900 91y 345	ecs Pro	YCY TUT	ALA ALA	ATC Ile	AGA Arg JSO	1055
GAC Asp	GIG Val	YT# CCI	TCC Ser	TGG TEP 355	yzd ycy	GTA Val	NG Lys	G) G) G) G)	ACC Thr 360	Glu Glu	yld	ATG Het	GIT Val	GCG Ala 365	ATC Ile	1103
yrg	ACG Thx	GAG Glu	CTA Leu 170	ACC Thr	aag Lys	CTG Leu	gja ggy	0CA Ala 375	TCT Set	GIT Val	GAG GZu	gaa glu	180 GJA GCC	CCG Pro	GAC Amp	1151
TAC Tyr	TGC Cys	ATC Ile 385	ATC Ile	ACG Thr	SIO CCG	Pro	GAG G1u 390	aag Lye	ctg Leu	AAC Aan	GIG Val	ACG Thr 395	Ala	ATC Ile	gac Asp	1199
ACG Thr	TAC Tyr 400	yeb ayc	MP	CAC His	yrg Yoc	ATG Met 405	YJ# OCC	DTA Jek	Y]# GCC	TTC TTC	TCC Ser 410	CTT CTT	ALA OCC	SCC Ala	CA: ICI	1247
GCC Ala 415	GAG Glu	orc Val	CCC Pro	GTC Val	ACC The 420	ATC Ile	YZĀ CCC	yeb GYC	DE0 CCI	600 01y 425	ca: lec	ACC Thr	yza Cog	aag Lys	ACC The 430	1295
TTC Phe	CCC Pro	GAC Asp	TAC Tyr	TTC Pho 435	GAT Asp	GTG Val	CTG Leu	Ser	ACT The 440	TTC Pha	GTC Val	aag Lys	AAT Asn			1337
TAA									•	•						1340

SEQ ID No. 3. Ale Cly Ale Clu Clu Ile Vel Leu Cln Pro Ile Lys Clu Ile Ser Cly The Val Lys Lou Pro Gly Ser Lys Ser Lou Ser Ask Arg The Lou Lou Lou Ala Ala Lou for Glu Gly for the Val Vel Asp Asn Lou Lou Asn
45 Ser Glu Asp Val His Tyr Not Lou Gly Ale Lou Arg Thr Lou Gly Lou 50 Ser Val Glu Ala Asp tys Ala Ala Lys Asg Ala Val Val Gly Cys Cly Cly Lys The Pro Val Clu Mp Ale Lys Clu Clu Val Cla Lou Pho Los Cly As Ala Cly Thy Ala Net Ary Pro Los Thr Ala Ala Val Thr Ala Ala Gly Gly Asa Ala The Tyr Val Lou Asp Gly Val Pro Arg Met Arg Glu Arg fro Tie Gly Asp Les Val Val Gly Lou Lye Gln Lou Gly 130 $$ Als Asp Val Asp Cys Phe Los Gly Thr Asp Cys Pro Pro Val Arg Val 145 155 160 Ash Gly Ile Gly Gly Leu Pro Gly Gly Lys Val Lys Leu Ser Gly Ser 175 The Ser Ser Oln Tyr Lou Ser Ale Lou Lou Her Ale Ale Pro Lou Ale 180 Lou City Asp Val Ciu The Ciu The Lie Asp Lye Lou The Ser The Pro Tyr Val Glu Met Thr Lau Ary Lou Met Glu Ary Fhe Gly Val Lys Ala 215 $\,$ Glu His Ser Asp Ser Trp kep kry Fhe Tyr Ile Lys Gly Gly Gln Lys 225 230 240 Tyr Lys Ser Pro Lys Asn Ala Tyr Val Glu Gly Asp Ala Ser Ser Ala 245 255 Ser Tyr Phe Leu Ala Gly Ala Ala The Thr Gly Gly Thr Val Thr Val 260 265 270Glu Gly Cye Gly The The See Lou Gln Gly Asp Val Lye Phe Ala Glu 275 $$280\,$ Val Lou Glu Net Not Cly Ala Lys Val Thr Try Thr Glu Thr Ser Val 290 300 The Vel The Gly Pro Pro Arg Glu Pro Phe Gly Arg Lys His Leu Lys 305 310 Als The Asp Val Asn Net Asn Lye Net Pro Asp Val Als Not The Lem 325 $$ Ala Val Val Ala Leu Phe Ala Asp Gly Pro Thr Ala Ile Arg Asp Val 345 Ala Ser Try Arg Val Lyw Glu Thr Glu Arg Met Val Ala Ile Arg Thr 365 $$ Glu Lou Thr Lys Lou Gly Ala sar val Glu Glu Gly Fro Asp Tyr Cys 370 The The Thr Pro Pro Glu Love Lou Ann Val Thr Ala Ile Amp Thr Tyr 185 _ 395 400 Asy Asy His Arg Not Ala Not Ala Phe Ser Lou Ala Ala Cys Ala Glu-415 405Val Pro Val The lie Arg Asp Pro Cly Cys The Arg Lies The Pro 420 425 Asp Tyr Phe Asp Val Lou Ser Thr Phe Val Lys Asn 435

SEQ ID No. 4.

COMTO OCC COC CAG GAG ATC OTO CTG CAG CCC ATC AAC GAG ATC Ala Gly Ala Glu Glu Ile Val Leu Gln Fro Ile Lys Glu Ile 1 10	47
FOR COSC ACC GIT AND CITE COS GOS TOC AND TOS CIT TOC AND COS ATC Ser Gly The Vel Lys Leu Pro Gly Ser Lys Ser Leu Ser Ann Arg 11e 15 20 25 30	95
CTC CTA CTC GCC GCC CTG TCC GAG GGG ACA ACA GTG GTT GAT AAC CTG Leu Leu Leu Ala Ala Leu Ser Glu Gly Thr Thr Val Val Asp Asn Leu 35	143
CTG AAC AGT GAG GAT GTC CAC TAC ATG CTC GGG GCC TTG AGG ACT CTT Lou Asn Ser Glu Asp vel his tyr net Lou Gly Ale Lou Arg The Lou 50	191
GOT CTC TCT GTC GAA GCG GAC AAA GCT GCC AAA AGA GCT GTA GTT GTT Gly Lou Ser Val Glu Ala Asp Lys Ala Lys Arg Ala Val Val GS .70	239
GGC TOT GGT GGA ANG TTC CCA GTT GAG GAT GCT AAA GAA GAA GTG CAG Gly Cys Gly Gly Lys Phe Pro Val Glu Asp Ala Lys Glu Glu Val Gla 80 85 90	287
CTC TTC TTG GGG AAT GCT GGA ATC GCA ATG GGG TGC TTG ACA GCA GCT Leu Phe Leu Gly Aen Ala Gly Tie Ala Met Arg Ser Leu Thr Ala Ala 95 100 110	225
OTT ACT OCT OCT COT CGA AMT OCA ACT TAC CTC CTT GAT OCA CTA CCA Val Thr Ala Ala Gly Gly Asn Ala Thr Tyr Val Leu Asp Gly Val Pro 115	383
AGA ATG AGG GAG AGA CCC ATT GOC GAC TTG GTT GTC GGA TTG AAG CAG Arg Mec Arg Glu Arg Pro Ile Gly Aep Leu Val Val Gly Leu Lys Gln 130	431
CTT GGT GCA GAT GTT GAT TGT TTC CTT GGC ACT GAC TGC CCA CCT GTT Leu Gly Ala Asp Val Asp Cys Phe Leu Gly Thr Asp Cys Pro Pro Val 145 150 155	479
COT OTC AAT GOA ATC GOA GOC CTA CCT GOT GOC AAG GTC AAG CTG TCT Arg Val Aan Gly lle Gly Gly Leu Pro Gly Gly Lys Val Lys Leu Ser 160 165 170	527
GCC TCC ATC AGC AGT CAG TAC TTG AGT GCC TTG CTG ATG GCT GCT GCT Gly Ser Ile Ser Sor Gln Tyr Leu Ser Ala Leu Leu Net Ala Ala Pro 175 180 190	5 75
TTG OCT CTT GGG GAT GTG GAG ATT GAA ATC MT GAT AAA TTA ATC TCC Lou Ala Lou Gly Asp Val Glu Ile Glu Ile Ile Asp Lys Lou Ile Ser 195 200 205	623
ATT CCG TAC OTC GAA ATG ACA THE AGA THE ATG GAG CGT THT GGT GTG Ile Pro Tyr Val Glu Met Thr Leu Arg Leu Met Glu Arg Pha Gly Val 210 215	671
ANA GEA GAG CAT TOT GAT AGO TOG GAG AGA THE TAG ATT ANG GGA GGT Lye Ala Glu His Ser Asp Ser Trp Asp Arg Fhe Tyr Ile Lye Gly Gly 215 230 235	719

SEQ ID N . 4 (c ntinuation).

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8	oc er S5	Ma	AGC Ser	tat tyt	The	TTG Lou 260	OCT Ala	ogr Gly	OCT Ala	OCA Ala	ATT 110 265	ACT The	gga gly	GOO Gly	TILL	GIG Val 270	815
X	he Ct	AVJ OLO	G1u	gly gly	101 Cys 375	QJA.	ACC The	ACC The	AST Box	173 Lau 280	CAG Gla	cor	Trb	OTG Val	AAG Lya 285	The	163
٥ ۲	CT la	aag Glu	GEY AT	CTG Lou 290	gya aya	Net Xet	ATQ Net	QJA QQY	000 Ala 295	aag Lye	OTT Val	ACA The	TCG Trp	ACC The 300	eja Gye	act The	911
8	4E 9C	OTA Val	ACT The 305	Aer Oli	ACT Thr	ar ecc	CCA PTO	006 Pro 310	YEA	eju ans	CCA PTO	TTT	606 61y 315	yld Ygg	AAĀ Lyo	HT: CYC	959
Ç	en IC	Lys 320	yje ccs	ATT Ile	CAT Asp	Aer QUC	AAC AAD 325	ATG Mec	AAC Aan	AAG Lys	atg Mat	330 Pro	gat Asp	AT	OCC Ala	ATG Het	1007
7	N N CT	CTT Leu	OCT Ala	A#7 610	Apj Gii	OCC Ala 340	CTC	TIT Phe	ace Ala	GAT Asp	occ Gly 345	Pro	The The	Y) F	ATC Ile	AGA AFW J50	1055
ğ	AC SP	GIG Val	GCT Ale	TCC Set	700 TEP 355	YZY	OTA Val	and Oyj	ejn eve	ACC Thr 360	a n G Glu	YCC YCC	atg Het	GFT Val	GCG Ala 365	ATC Ile	1103
C A	GG Fg	acg The	GAG Glu	CTA Lou 370	ACC Thr	lys Mg	<u>ren</u> CIC	GLY	0CA Ala 375	rci Ser	OTT Val	Glu Glu	GJU	380 CJA GGG	bto CCQ	Veb	1151
T	AC YT	cys Icc	ATC Ile 385	ATC Ile	ACG Thr	CCG Pro	CCG	GJu Glu J90	Lys	CTG Leu	AAC AAD	CTG Val	ACG The 195	GCG Ala	ATC Ile	gac Alp	1199
T	cg br	TAC Tyr 400	yab CYC	yab GYC	CYC	YGG YGG	ATO Mec 405	Ala	Her	GCC	TTC Phe	TCC Ser 410	CII	OCC Ala	YTT	Cys	1247
A	cc la 15	GAG Glu	GTC Val	CCC	GTC Val	ACC The 420	ATC Ile	yrg	GAC Asp	CCT Pro	G00 Gly 425	Cys TGC	ACC The	YLA COO	AAG Lys	ACC The 430	1295
T	TC he	CCC Pro	GAC Asp	TAC Tyr	TTC Phe 435	gat Asp	oro Val	CTG	AGC Ser	ACT TAT 440	TTC	APT QLC	lys	AAT Asti			1337
7	'AA																1340

TAA

SEQ ID NO. 5. Ale dly Ale diu the tal Lou Cla Pro Ile Lys dlu Ile Ser Cly The Val Lys Law Pra Gly See Lys See Lou See Asn Arg 11s Lou Lou 20 25 Low him him low for the the Val Val hep hen Low hen 35 Ser clu Asp Val His Tyr Met Lou Cly Ale Lou Ary The Lou Cly Lou. 50 Ser Val dis his hep bys his his bys Ary his Val Val Val dly Cys
65 Cly Cly Lye The Pro Val Clu Asp Ala Lye Clu Clu Val Cla Lou The Les Oly Asn Ala City Ile Ala Not Are Ser Les The Ala Val The 100 Ale Ale Cly Cly Jen ale the tyr Val Lou Asp Cly Val Pro Ary Not 115 Ard Glu Ard Pro Ile Gly Asp Lou Val Val Gly Lou Lys Gla Lou Gly 130 Ala Amp Val Amp Cys She Leu Gly Thir Amp Cys Pro Pro Val Arg Val 145 150 Ask City The City City Law Pro City City Lys Val Lys Law Ser City Ser 175 The Ser Ser Clh Tyr Lou Ser Ale Lou Lou Met Ale Ale Pro Lou Ale 180 Les Gly Asp Val Glu Ile Glu Ile Ile Asp Lys Leu Ile Ser Ile Pro 195 Tyr Val Olu Not Thr Lau Arg Lou Not Glu Arg Fho Gly Val Lys Ala 210 225 Clu His ser hap See Trp hap hay the Tyr Ile Lye Cly Clu Clu Lye 225 Tyr Lys Ser Pro Lys Asn Ale Tyr Val Glu Gly Asp Ale Ser Ser Ale 255 Ser Tyr Fhe Leu Ala Cly Ala Ala Ile Thr Cly Cly Thr Val Thr Val 260 265 Glu Gly Cys Gly The The See Lou Gln Gly Asp Val Lye Fhe Ala Glu 275 280 280 Val Lou Glu Net Met Gly Ala Lys Val Thr Try Thr Glu Thr Sar Val 290 295 The Vel The Cly Pro Pro Arg Clu Pro Phe Cly Arg Lys Ris Lau Lys 320 Ala Ile Asp Val Asn Mat Asn Lye Met Pro Asp Val Ala Met Thr Lou 335 Ale Vel Vel Ale Leu Fhe Ale Asp Gly Pro Thr Ale Ile Ary Asp Vel 345 $\,$ Ala Ser Trp Arg Val Lys Glu Thr Glu Arg Het Val Ala Ile Arg Thr 355 Glu Lou The Lys Lou Gly Ala Ser Val Glu Glu Gly Pro Asp Tyr Cys 370 380 The The The Pro Pro Glu Mys Lou Asn Val The Ala Ile Asp The Tyr 395 - 350 400 Asp Asp Mis Ary Not Ala Not Ala Pho Ser Lou Ala Ala Cys Ala Glu-405 410 Val Pro Val the lie Arg Amp Pro Gly Cye The Arg Lye The Pro 420 Asp Tyr Phe Asp Val Lou Sar Thr Phe Val Lys Asn 440

SEQ ID No. 6.

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e sametene	ATTITICA ATTIACO	#1000100Ph	ARTOTTOTTA	ATTITICAL	CAGATCCC	418

SEQ ID No. 7.

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SEQUENCE LISTING

- <110> DEROSE, Richard
 CHAUBET, Nicole
 GIGOT, Claude (deceased)
- <120> ISOLATED DNA SEQUENCE CAPABLE OF SERVING AS REGULATORY ELEMENT IN A CHIMERIC GENE WHICH CAN BE USED FOR THE TRANSFORMATION OF PLANTS
- <130> 022650-453
- <140> 09/000,062
- <141> 1998-05-29
- <150> PCT/FR96/01109
- <151> 1996-07-17
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ttc Phe	ttg Leu	ejà aaa	aat Asn	gct Ala 100	gga Gly	act Thr	gca Ala	atg Met	cgg Arg 105	cca Pro	ttg Leu	aca Thr	gca Ala	gct Ala 110	gtt Val	338
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tcc Ser	atc Ile	agc Ser	agt Ser	cag Gln 180	tac Tyr	ttg Leu	agt Ser	gcc Ala	ttg Leu 185	ctg Leu	atg Met	gct Ala	gct Ala	cct Pro 190	ttg Leu	578
gct Ala	ctt Leu	ejà aaa	gat Asp 195	gtg Val	gag Glu	att Ile	gaa Glu	atc Ile 200	att Ile	gat Asp	aaa Lys	tta Leu	atc Ile 205	tcc. Ser	att Ile	626
ccg Pro	tac Tyr	gtc Val 210	gaa Glu	atg Met	aca Thr	ttg Leu	aga Arg 215	Leu	atg Met	gag Glu	cgt Arg	ttt Phe 220	ggt Gly	gtg Val	aaa Lys	674
gca Ala	gag Glu 225	cat His	tct Ser	gat Asp	agc Ser	tgg Trp 230	gac Asp	aga Arg	ttc Phe	tac Tyr	att Ile 235	aag Lys	gga Gly	ggt Gly	caa Gln	722
aaa Lys 240	tac Tyr	aag Lys	tcc Ser	cct Pro	aaa Lys 245	aat Asn	gcc Ala	tat Tyr	gtt Val	gaa Glu 250	ggt Gly	gat Asp	gcc Ala	tca Ser	agc Ser 255	770
gca	agc	tat	ttc	ttg	gct	ggt	gct	gca	att	act	gga	aaa	act	gtg	act	818

										-						
Ala	Ser	Tyr	Phe	Leu 260	Ala	Gly	Ala	Ala	Ile 265	Thr	Gly	Gly	Thr	Val 270	Thr	
			tgt Cys 275													866
			gag Glu													914
			act Thr													962
			gat Asp													1010
			gtt Val													1058
gtg Val	gct Ala	tcc Ser	tgg Trp 355	aga Arg	gta Val	aag Lys	gag Glu	acc Thr 360	gag Glu	agg Arg	atg Met	gtt Val	gcg Ala 365	atc Ile	cgg Arg	1106
			acc Thr													1154
tgc Cys	atc Ile 385	atc Ile	acg Thr	ccg Pro	ccg Pro	gag Glu 390	aag Lys	ctg Leu	aac Asn	gtg Val	acg Thr 395	gcg Ala	atc Ile	gac Asp	acg Thr	1202
tac Tyr 400	gac Asp	gac Asp	cac His	agg Arg	atg Met 405	gcc Ala	atg Met	gcc Ala	ttc Phe	tcc Ser 410	ctt Leu	gcc Ala	gcc Ala	tgt Cys	gcc Ala 415	1250
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5

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			20		•		-	25					30		

- Leu Ala Ala Leu Ser Glu Gly Thr Thr Val Val Asp Asn Leu Leu Asn 40 45
- Ser Glu Asp Val His Tyr Met Leu Gly Ala Leu Arg Thr Leu Gly Leu 50 55 60
- Ser Val Glu Ala Asp Lys Ala Ala Lys Arg Ala Val Val Gly Cys
 65 70 75 80
- Gly Gly Lys Phe Pro Val Glu Asp Ala Lys Glu Glu Val Gln Leu Phe 85 90 95
- Leu Gly Asn Ala Gly Thr Ala Met Arg Pro Leu Thr Ala Ala Val Thr 100 105 110
- Ala Ala Gly Gly Asn Ala Thr Tyr Val Leu Asp Gly Val Pro Arg Met
- Arg Glu Arg Pro Ile Gly Asp Leu Val Val Gly Leu Lys Gln Leu Gly 130 135 140
- Ala Asp Val Asp Cys Phe Leu Gly Thr Asp Cys Pro Pro Val Arg Val 145 150 155 160
- Asn Gly Ile Gly Gly Leu Pro Gly Gly Lys Val Lys Leu Ser Gly Ser 165 170 175
- Ile Ser Ser Gln Tyr Leu Ser Ala Leu Leu Met Ala Ala Pro Leu Ala 180 185 190
- Leu Gly Asp Val Glu Ile Glu Ile Ile Asp Lys Leu Ile Ser Ile Pro 195 200 205
- Tyr Val Glu Met Thr Leu Arg Leu Met Glu Arg Phe Gly Val Lys Ala 210 215 220
- Glu His Ser Asp Ser Trp Asp Arg Phe Tyr Ile Lys Gly Gly Gln Lys 225 230 235
- Tyr Lys Ser Pro Lys Asn Ala Tyr Val Glu Gly Asp Ala Ser Ser Ala 245 250 255
- Ser Tyr Phe Leu Ala Gly Ala Ala Ile Thr Gly Gly Thr Val Thr Val 260 265 270
- Glu Gly Cys Gly Thr Thr Ser Leu Gln Gly Asp Val Lys Phe Ala Glu
- Val Leu Glu Met Met Gly Ala Lys Val Thr Trp Thr Glu Thr Ser Val 290 295 300

	Thr 305	Val	Thr	Gly	Pro	Pro 310	Arg	Glu	Pro	Phe	Gly 315	Arg	Lys	His	Leu	Lys 320	
•	Ala	Ile	Asp	Val	Asn 325	Met	Asn	Lys	Met	Pro 330	Asp	Val	Ala	Met	Thr 335	Leu	
	Ala	Val	Val	Ala 340	Leu	Phe	Ala	Asp	Gly 345	Pro	Thr	Ala	Ile	Arg 350	Asp	Val	
	Ala	Ser	Trp 355	Arg	Val	Lys	Glu	Thr 360	Glu	Arg	Met	Val	Ala 365	Ile	Arg	Thr	
	Glu	Leu 370	Thr	Lys	Leu	Gly	Ala 375	Ser	Val	Glu	Glu	Gly 380	Pro	Asp	Tyr	Cys	
	385				Pro	390			:		395					400	
	Asp	Asp	His	Arg	Met 405	Ala	Met	Ala	Phe	Ser 410	Leu	Ala	Ala	Cys	Ala 415	Glu	
	Val	Pro	Val	Thr 420	·Ile	Arg	Asp	Pro	Gly 425	Cys	Thr	Arg	Lys	Thr 430	Phe	Pro	
	Asp	Tyr	Phe 435	Asp	Val	Leu	Ser	Thr 440	Phe	Val	Lys	Asn					
	<21:	0> 4 1> 1: 2> Di 3> Zo		ays												·	
		1> C		(133	7) .	-		-						•			
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	ggc Gly	acc Thr	gtc Val	aag Lys	ctg Leu 20	ccg Pro	Gly aaa	tcc	aag Lys	tcg Ser 25	ctt Leu	tcc Ser	aac Asn	cgg Arg	atc Ile 30	ctc Leu	98
	cta Leu	ctc Leu	gcc Ala	gcc Ala 35	ctg Leu	tcc Ser	gag Glu	gly aaa	aca Thr 40	aca Thr	gtg Val	gtt Val	gat Asp	aac Asn 45	ctg Leu	ctg Leu	146
	aac Asn	agt Ser	gag Glu 50	gat Asp	gtc Val	cac	tac Tyr	atg Met 55	Leu	gjà aaa	gcc	ttg Leu	agg Arg 60	act Thr	ctt Leu	ggt Gly	194
	ctc	tet	atc	gaa	gcg	qac	aaa	gct	gee	aaa	aga	gct	gta	gtt	gtt	ggc	242

Leu	Ser 65		Glu	Ala	Asp	Lys 70	Ala	Ala	Lys	Arg	Ala 75		Val	Val	Gly	
_	Gly				cca Pro 85	-		_	_		Ġlu			_		290
					gga Gly					Ser					Val	338
					aat Asn									Pro		386
			Arg		att											434
		Asp		_	tgt Cys					_	_			_	_	482
					ggg Gly 165											530
					tac Tyr											578
-					gag Glu		-			-						626
_				-	aca Thr	_	_	_	_	_						674
_				-	agc Ser		_	_					-			722
		-			aaa Lys 245		_		_	_		-	-		-	770
					gct Ala											818
					acc Thr		Ser									866

gag Glu	gta Val	ctg Leu 290	gag Glu	atg Met	atg Met	gga Gly	gcg Ala 295	aag Lys	gtt Val	aca Thr	tgg Trp	acc Thr 300	gag Glu	act Thr	agc Ser	914
gta Val	act Thr 305	gtt Val	act Thr	ggc Gly	cca Pro	ccg Pro 310	cgg Arg	gag Glu	cca Pro	ttt Phe	gġg Gly 315	agg Arg	aaa Lys	cac His	ctc Leu	962
aag Lys 320	gcg Ala	att Ile	gat Asp	gtc Val	aac Asn 325	atg Met	aac Asn	aag Lys	atg Met	cct Pro 330	gat Asp	gtc Val	gcc Ala	atg Met	act Thr 335	1010
ctt Leu	gct Ala	gtg Val	gtt Val	gcc Ala 340	ctc Leu	ttt Phe	gcc Ala	gat Asp	ggc Gly 345	ccg Pro	aca Thr	gcc Ala	atc Ile	aga Arg 350	gac Asp	1058
gtg Val	gct Ala	tcc Ser	tgg Trp 355	aga Arg	gta Val	aag Lys	gag Glu	acc Thr 360	gag Glu	agg Arg	atg Met	gtt Val	gcg Ala 365	atc Ile	cgg Arg	1106
acg Thr	gag Glu	cta Leu 370	acc Thr	aag Lys	ctg Leu	gga Gly	gca Ala 375	tct Ser	gtt Val	gag Glu	gaa Glu	380 GJÀ āāā	ccg Pro	gac Asp	tac Tyr	1154
tgc Cys	atc Ile 385	atc Ile	acg Thr	ccg Pro	ccg Pro	gag Glu 390	aag Lys	ctg Leu	aac Asn	gtg Val	acg Thr 395	gcg Ala	atc Ile	gac Asp	acg Thr	1202
tac Tyr 400	gac Asp	gac Asp	cac His	agg Arg	atg Met 405	gcg Ala	atg Met	gcc Ala	ttc Phe	tcc Ser 410	ctt Leu	gcc Ala	gcc Ala	tgt Cys	gcc Ala 415	1250
gag Glu	gtc Val	ccc Pro	gtc Val	acc Thr 420	atc Ile	cgg Arg	gac Asp	cct Pro	ggg Gly 425	tgc Cys	acc Thr	arg	aag Lys	acc Thr 430	ttc Phe	1298
	gac Asp												taa			1340

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Ser Glu Asp Val His Tyr Met Leu Gly Ala Leu Arg Thr Leu Gly Leu 55 Ser Val Glu Ala Asp Lys Ala Ala Lys Arg Ala Val Val Gly Cys Gly Gly Lys Phe Pro Val Glu Asp Ala Lys Glu Glu Val Gln Leu Phe Leu Gly Asn Ala Gly Ile Ala Met Arg Ser Leu Thr Ala Ala Val Thr 105 Ala Ala Gly Gly Asn Ala Thr Tyr Val Leu Asp Gly Val Pro Arg Met 125 115 Arg Glu Arg Pro Ile Gly Asp Leu Val Val Gly Leu Lys Gln Leu Gly 135 130 Ala Asp Val Asp Cys Phe Leu Gly Thr Asp Cys Pro Pro Val Arg Val 155 Asn Gly Ile Gly Gly Leu Pro Gly Gly Lys Val Lys Leu Ser Gly Ser 170 Ile Ser Ser Gln Tyr Leu Ser Ala Leu Leu Met Ala Ala Pro Leu Ala 185 180 Leu Gly Asp Val Glu Ile Glu Ile Ile Asp Lys Leu Ile Ser Ile Pro Tyr Val Glu Met Thr Leu Arg Leu Met Glu Arg Phe Gly Val Lys Ala 215 210 Glu His Ser Asp Ser Trp Asp Arg Phe Tyr Ile Lys Gly Gln Lys 225 Tyr Lys Ser Pro Lys Asn Ala Tyr Val Glu Gly Asp Ala Ser Ser Ala Ser Tyr Phe Leu Ala Gly Ala Ala Ile Thr Gly Gly Thr Val Thr Val

Glu Gly Cys Gly Thr Thr Ser Leu Gln Gly Asp Val Lys Phe Ala Glu

Val Leu Glu Met Met Gly Ala Lys Val Thr Trp Thr Glu Thr Ser Val 290 295 300

Thr Val Thr Gly Pro Pro Arg Glu Pro Phe Gly Arg Lys His Leu Lys 305 310 315 320

Ala Ile Asp Val Asn Met Asn Lys Met Pro Asp Val Ala Met Thr Leu 325 330 335

Ala Val Val Ala Leu Phe Ala Asp Gly Pro Thr Ala Ile Arg Asp Val

-

340 345 350

Ala Ser Trp Arg Val Lys Glu Thr Glu Arg Met Val Ala Ile Arg Thr 355 360 365

Glu Leu Thr Lys Leu Gly Ala Ser Val Glu Gly Pro Asp Tyr Cys 370 375 380

Ile Ile Thr Pro Pro Glu Lys Leu Asn Val Thr Ala Ile Asp Thr Tyr 385 390 395 400

Asp Asp His Arg Met Ala Met Ala Phe Ser Leu Ala Ala Cys Ala Glu 405 410 415

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cattectgea attgaatacg tatggateta aatettgtta atttgttgaa cagateec 418

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